

166576



Applied Chemistry, Creative Solutions

November 13, 2001  
(Via certified or express mail)

Kevin Turner-Environmental Scientist, OSC  
U. S. Environmental Protection Agency  
c/o Crab Orchard National Wildlife Refuge  
8588 Rt. 148  
Marion, IL 62959

Thomas Martin  
Associate Regional Counsel  
77 West Jackson Boulevard (C-14J)  
Chicago, IL 60604-3590

**Re: Sauget Sites Area I - May 31, 2000 Unilateral Administrative Order (UAO)**  
**Sediment / Soils Removal Action**  
• # 6 - November 2001 Monthly Report

Dear Mr. Turner and Mr. Martin,

Enclosed is the November 2001 Monthly Report for the Sauget Sites Area I May 31, 2000 Unilateral Administrative Order ("UAO") sediment removal Action. This submittal is in fulfillment of the monthly reporting requirements of the UAO, Section V, and paragraph 3.4. Reporting.

Sincerely,

A handwritten signature in black ink, appearing to read "D. M. Light".

D. M. Light  
Manager, Remedial Projects  
Solutia Inc.

cc:

Michael Ribordy – USEPA Region 5  
Sauget File - Solutia  
S. Bron - IEPA  
Mayor D. Reed - Cahokia  
Village of Sauget - % P. H. Weis & Associates (Attn: Brian Nelson)  
Rich Bartelt – Arcadis

Mike Henry - IDNR  
Kevin de la Bruere - USF&G  
Mayor P. Sauget - Sauget, IL  
Jon Dikinas – Dikinas Consulting

## **Sauget Sites Area I - Sauget, Illinois**

### **May 31, 2000 UAO – Dead Creek Sediment Removal Action**

#### **Monthly Report**

**Date of Report:** November 13, 2001  
**Period Covered:** October 1, 2001 – October 31, 2001  
**Next Report Period:** November 1, 2001 – November 30, 2001

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#### **Background**

A Unilateral Administrative Order (“UAO”) was issued to Solutia by the U. S. EPA on May 31, 2000, requiring construction of an on-site containment cell, removal of affected creek bed sediments and soils and flood plain soils from specific sections of Dead Creek, and placement of the affected sediments and soils in the newly constructed on-site cell. A Time Critical Removal Action Work Plan (“TCRAWP”) was initially submitted to the Agencies June 30, 2000 for review and approval. Agreements sufficient to proceed with issuance of a request for bids for the containment cell construction were reached in December, 2000. Bids were received in late January and evaluated in February 2001.

Fieldwork began on the sediment de-watering phase of the project in November 2000. Installation of the required facilities (piping, pumps, basins, etc.) to de-water the sediments while the containment cell is being constructed was completed and started up in February, 2001. Operation of these facilities will continue until all sediments are placed into the containment cell.

Subject to the inclusion of all comments and agreed upon revisions, approval of the containment cell design by U. S. EPA was received March 5, 2001. A contract for construction of the containment cell was awarded March 8, 2001 to LMS Environmental Contracting, Inc. (“LMS”). Placement of fill for the Containment Cell berms began April 23, 2001. A March 30, 2001 revised draft containment cell design was approved by the Agencies in a May 10, 2001 letter. Construction was completed on the Containment Cell on September 13, 2001. A draft Containment Cell Certification Report was submitted for Agencies’ review and approval upon construction completion. The Containment Cell was approved on September 24, 2001 by USEPA and IEPA for receipt of sediment. Placement of sediments into the cell began September 26, 2001.

## **Agency Actions / Communications**

- An Amendment to the UAO was received October 29, 2001. The Amendment modified the project scope of the UAO – adding Creek Sector F sediments removal and placement into the Containment Cell.
- Revision 01 Draft Groundwater Monitoring Plan - submitted to the Agencies August 3, 2001 – remained under review.
- The Operations and Maintenance Report - submitted for Agencies' review and approval August 28, 2001- remained under review. Portions of the Plan applicable to the placement of sediments have already been approved.
- An August 20, 2001 request for a change in the Post Removal Confirmation Sampling Protocol remained under review by the Agencies.

## **Work Performed during the reporting period**

- Continued sediment dewatering activities and maintenance of dewatering pumps.
- Completed sediment removal from Jerome Avenue to Cahokia Street (approx. 19,000 cy sediments removed and placed in the cell to date).
- Completed relocating previously stockpiled sediments from Segment B into the containment cell.
- Sampled sediments being placed in the containment cell as required by the approved Work Plan.
- Began sediment removal from Segment B (working from Queeny Ave south).
- Began installing temporary cover (poly, geotextile, and dense grade) in CS-B.
- Performed startup testing of storm water storage and treatment system.
- Processed approximately 500,000 gallons of storm water through the on-site storm water treatment system.
- Continued screening sediments for placement against containment cell slopes per the Work Plan.

## **Data Submittal**

The analytical results are enclosed from the initial sampling round (background) of the containment cell groundwater monitoring wells.

## **Work scheduled for next reporting period**

- Complete sediment removal in CS-B. Complete installation of the temporary cover (poly and dense grade) in northern section of Segment B.
- Begin sediment removal from CS-C – the last segment north of CS-F to be completed.
- Begin clearing and grubbing in Segment F. Setup dewatering system in CS-F.
- Begin post sediment removal sampling of the creek.
- Pending Agencies' approval of the protocol, begin post sediment removal confirmation sampling.

- Continue operation of the storm water treatment system on an as-needed basis.
- Continue screening sediments for placement against cell slopes as required.

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## **PROJECT COMPLETION**

Mobilization	100 %
Berm Construction	100 %
Liner Installation	100 %
Sediment Removal Preparation	100 %
Sediment Excavation (Site M)	100 %
Creek Sediment Excavation	80 %
Cover Installation	0 %
Demobilization	0 %
Final Report Preparation	0 %

### **Problems and Solutions**

None

### **Submittal Schedule Status**

See attached UAO schedule

### **Issues under review**

None

### **Comments**

None

## **May 31 Sauget Area I UAO Sediment Removal Action**

### **SCHEDULE**

<b>Deliverable</b>	<b>Description</b>	<b>Due Date</b>
Issuance Date	Date UAO signed by Munro	<b>31-May-00</b>
Effective Date	10 business day after issuance	<b>14-Jun-00</b>
Notice of Intent to Comply	3 business days after effective date	<b>19-Jun-00</b>
Designation of Contractor and Project Coordinator	5 business days after effective date	<b>21-Jun-00</b>
Access	14 calendar days after effective date	<b>28-Jun-00</b>
Time Critical Removal Action Work Plan Submittal	15 business days after effective date	<b>7-Jul-00</b>
EPA Approval of TCRA W/P		<b>May 10, 2001</b>
Monthly Reports	Begin 30 calendar days after approval of TCRA W/P until completion	<b>June 10, 2001</b>
Final Report	60 Calendar days after completion of sediments and soils removal	
Mitigation Plan	60 Calendar days after completion of sediments and soils removal	

STL Savannah

LOG NO: S1-16198

Received: 22 SEP 01

Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#		
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16198-2	TCMW-1M		09-20-01/09:50	SIL068		
16198-3	TCMW-2S		09-20-01/17:40	SIL068		
16198-4	TCMW-4S		09-20-01/10:05	SIL068		
16198-5	TCMW-5M		09-20-01/14:35	SIL068		
PARAMETER		16198-1	16198-2	16198-3	16198-4	16198-5
<b>Volatiles by GC/MS (8260)</b>						
Chloromethane, ug/l		10U	10U	10U	10U	10U
Bromomethane (Methyl bromide), ug/l		9.8U	9.8U	9.8U	9.8U	9.8U
Vinyl chloride, ug/l		10U	10U	10U	10U	10U
Chloroethane, ug/l		10U	10U	10U	10U	10U
Methylene chloride (Dichloromethane), ug/l		4.7U	4.7U	4.7U	4.7U	4.7U
Acetone, ug/l		50U	50U	50U	50U	50U
Carbon disulfide, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
1,1-Dichloroethene, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
1,1-Dichloroethane, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
Cis/Trans-1,2-Dichloroethene, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
Chloroform, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
1,2-Dichloroethane, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
2-Butanone (MEK), ug/l		25U	25U	25U	25U	25U
1,1,1-Trichloroethane, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
Carbon tetrachloride, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
Bromodichloromethane, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U

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16198-5	TCMW-5M		09-20-01/14:35	SIL068
PARAMETER	16198-1	16198-2	16198-3	16198-4
1,1,2,2-Tetrachloroethane, ug/l	5.0U	5.0U	5.0U	5.0U
1,2-Dichloropropane, ug/l	5.0U	5.0U	5.0U	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U	5.0U	5.0U	5.0U
Trichloroethene, ug/l	2.7U	2.7U	2.7U	2.7U
Dibromochloromethane, ug/l	5.0U	5.0U	5.0U	5.0U
1,1,2-Trichloroethane, ug/l	5.0U	5.0U	5.0U	5.0U
Benzene, ug/l	1.2U	1.2U	1.2U	1.2U
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	1.0U
Bromoform, ug/l	5.0U	5.0U	5.0U	5.0U
2-Hexanone, ug/l	25U	25U	25U	25U
4-Methyl-2-pentanone (MIBK), ug/l	25U	25U	25U	25U
Tetrachloroethene, ug/l	5.0U	5.0U	5.0U	5.0U
Toluene, ug/l	5.0U	5.0U	5.0U	5.0U
Chlorobenzene, ug/l	5.0U	5.0U	1.7J	5.0U
Ethylbenzene, ug/l	5.0U	5.0U	5.0U	5.0U
Styrene, ug/l	5.0U	5.0U	5.0U	5.0U
Xylenes, Total, ug/l	5.0U	5.0U	5.0U	5.0U
Surrogate - Toluene-d8	96 %	94 %	98 %	94 %
Surrogate - 4-Bromofluorobenzene	80 %	82 %	80 %	76 %
Surrogate - Dibromofluoromethane	90 %	88 %	88 %	88 %
Dilution Factor	1	1	1	1
Analysis Date	10.02.01	10.02.01	10.02.01	10.02.01
Batch ID	1B1002	1B1002	1B1002	1B1002

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16198-2	TCMW-1M		09-20-01/09:50	SIL068
16198-3	TCMW-2S		09-20-01/17:40	SIL068
16198-4	TCMW-4S		09-20-01/10:05	SIL068
16198-5	TCMW-5M		09-20-01/14:35	SIL068
PARAMETER	16198-1	16198-2	16198-3	16198-4
Arsenic (6010), mg/l	0.0047B	0.0038B	0.010U	0.010U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H	0926H
Chromium (6010), mg/l	0.010U	0.010U	0.010U	0.010U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H	0926H
Copper (6010), mg/l	0.0047B	0.020U	0.010B	0.0032B
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H	0926H

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16198-4	TCMW-4S	09-20-01/10:05	SIL068
16198-5	TCMW-5M	09-20-01/14:35	SIL068
PARAMETER	16198-1	16198-2	16198-3
Iron (6010), mg/l	0.023B	21	0.050U
Dilution Factor	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H
Manganese (6010), mg/l	0.23	0.94	0.36
Dilution Factor	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H
Nickel (6010), mg/l	0.0079B	0.020B	0.0086B
Dilution Factor	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H

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16198-4	TCMW-4S		09-20-01/10:05	SIL068
16198-5	TCMW-5M		09-20-01/14:35	SIL068
PARAMETER	16198-1	16198-2	16198-3	16198-4
Lead (6010), mg/l	0.0050U	0.0050U	0.0050U	0.0050U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H	0926H
Antimony (6010), mg/l	0.020U	0.020U	0.020U	0.020U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H	0926H
Zinc (6010), mg/l	0.020U	0.020U	0.020U	0.020U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926H	0926H	0926H	0926H

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16198-4	TCMW-4S		09-20-01/10:05	SIL068		
16198-5	TCMW-5M		09-20-01/14:35	SIL068		
PARAMETER		16198-1	16198-2	16198-3	16198-4	16198-5
TCL Semivolatiles (8270)						
Phenol, ug/l		10U	10U	10U	10U	10U
bis(2-Chloroethyl)ether, ug/l		10U	10U	10U	10U	10U
2-Chlorophenol, ug/l		10U	10U	10U	10U	10U
1,3-Dichlorobenzene, ug/l		10U	10U	10U	10U	10U
1,4-Dichlorobenzene, ug/l		10U	10U	10U	10U	2.9J
1,2-Dichlorobenzene, ug/l		10U	10U	10U	10U	10U
2-Methylphenol (o-Cresol), ug/l		10U	10U	10U	10U	10U
2,2'-Oxybis(1-Chloropropane ) (bis-2-chloroisopropyl ether), ug/l		10U	10U	10U	10U	10U
3-Methylphenol/4-Methylphen ol (m&p-Cresol), ug/l		10U	10U	10U	10U	10U
N-Nitroso-di-n-propylamine, ug/l		10U	10U	10U	10U	10U
Hexachloroethane, ug/l		1.9U	1.9U	1.9U	1.9U	1.9U
Nitrobenzene, ug/l		3.5U	3.5U	3.5U	3.5U	3.5U
Isophorone, ug/l		10U	10U	10U	10U	10U
2-Nitrophenol, ug/l		10U	10U	10U	10U	10U
bis(2-Chloroethoxy)methane, ug/l		10U	10U	10U	10U	10U

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16198-5	TCMW-5M		09-20-01/14:35	SIL068
PARAMETER	16198-1	16198-2	16198-3	16198-4
2,4-Dichlorophenol, ug/l	10U	10U	10U	10U
1,2,4-Trichlorobenzene, ug/l	10U	10U	10U	10U
Naphthalene, ug/l	10U	10U	10U	10U
4-Chloroaniline, ug/l	20U	20U	20U	20U
Hexachlorobutadiene, ug/l	10U	10U	10U	10U
4-Chloro-3-methylphenol, ug/l	10U	10U	10U	10U
2-Methylnaphthalene, ug/l	10U	10U	10U	10U
Hexachlorocyclopentadiene, ug/l	10U	10U	10U	10U
2,4,6-Trichlorophenol, ug/l	2.1U	2.1U	2.1U	2.1U
2,4,5-Trichlorophenol, ug/l	10U	10U	10U	10U
2-Chloronaphthalene, ug/l	10U	10U	10U	10U
2-Nitroaniline, ug/l	50U	50U	50U	50U
Dimethylphthalate, ug/l	10U	10U	10U	10U
Acenaphthylene, ug/l	10U	10U	10U	10U
3-Nitroaniline, ug/l	50U	50U	50U	50U
Acenaphthene, ug/l	10U	10U	10U	10U
2,4-Dinitrophenol, ug/l	14U	14U	14U	14U
4-Nitrophenol, ug/l	50U	50U	50U	50U
Dibenzofuran, ug/l	10U	10U	10U	10U

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16198-5	TCMW-5M		09-20-01/14:35	SIL068
PARAMETER	16198-1	16198-2	16198-3	16198-4
2,4-Dinitrotoluene, ug/l	10U	10U	10U	10U
2,6-Dinitrotoluene, ug/l	10U	10U	10U	10U
Diethylphthalate, ug/l	10U	10U	10U	10U
4-Chlorophenylphenyl ether, ug/l	10U	10U	10U	10U
Fluorene, ug/l	1.0U	1.0U	1.0U	1.0U
4-Nitroaniline, ug/l	50U	50U	50U	50U
4,6-Dinitro-2-methylphenol, ug/l	13U	13U	13U	13U
N-Nitrosodiphenylamine, ug/l	0.54J	5.0U	5.0U	5.0U
4-Bromophenylphenyl ether, ug/l	1.0U	1.0U	1.0U	1.0U
Hexachlorobenzene, ug/l	10U	10U	10U	10U
Pentachlorophenol, ug/l	5.0U	5.0U	5.0U	5.0U
Phenanthrene, ug/l	10U	10U	10U	10U
Anthracene, ug/l	10U	10U	10U	10U
Di-n-butylphthalate, ug/l	10U	10U	10U	0.29J
Fluoranthene, ug/l	10U	10U	10U	10U
Pyrene, ug/l	10U	10U	10U	10U
Butylbenzylphthalate, ug/l	10U	10U	10U	10U
3,3'-Dichlorobenzidine, ug/l	20U	20U	20U	20U
Benzo(a)anthracene, ug/l	10U	10U	10U	10U

LOG NO: S1-16198

Received: 22 SEP 01

Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16198-1	TCMW-1S		09-20-01/09:30	SIL068
16198-2	TCMW-1M		09-20-01/09:50	SIL068
16198-3	TCMW-2S		09-20-01/17:40	SIL068
16198-4	TCMW-4S		09-20-01/10:05	SIL068
16198-5	TCMW-5M		09-20-01/14:35	SIL068
PARAMETER	16198-1	16198-2	16198-3	16198-4
bis(2-Ethylhexyl)phthalate, ug/l	1.3J	6.7	1.9	9.5
Chrysene, ug/l	10U	10U	10U	10U
Di-n-octylphthalate, ug/l	10U	10U	10U	10U
Benzo(b)fluoranthene, ug/l	10U	10U	10U	10U
Benzo(k)fluoranthene, ug/l	10U	10U	10U	10U
Benzo(a)pyrene, ug/l	10U	10U	10U	10U
Indeno(1,2,3-cd)pyrene, ug/l	10U	10U	10U	10U
Dibenzo(a,h)anthracene, ug/l	10U	10U	10U	10U
Benzo(g,h,i)perylene, ug/l	10U	10U	10U	10U
Carbazole, ug/l	3.4U	3.4U	3.4U	3.4U
Surrogate - Phenol-d5	76 %	77 %	75 %	86 %
Surrogate - 2-Fluorophenol	78 %	84 %	83 %	87 %
Surrogate - 2,4,6-Tribromophenol	82 %	80 %	82 %	92 %
Surrogate - Nitrobenzene - d5	72 %	78 %	80 %	80 %
Surrogate - 2-Fluorobiphenyl	72 %	80 %	78 %	76 %
Surrogate - Terphenyl-d14	56 %	54 %	42 %	64 %
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926C	0926C	0926C	0926C

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LOG NO: S1-16198

Received: 22 SEP 01

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Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
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Contract No.: S7219

Project: Sauget Area 1 Site M/Ven#203708

Sampled By: Client

Code: 103011022

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REPORT OF RESULTS

DATE/  
TIME SAMPLED

SDG#

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				
16198-1	TCMW-1S				09-20-01/09:30 SIL068
16198-2	TCMW-1M				09-20-01/09:50 SIL068
16198-3	TCMW-2S				09-20-01/17:40 SIL068
16198-4	TCMW-4S				09-20-01/10:05 SIL068
16198-5	TCMW-5M				09-20-01/14:35 SIL068

PARAMETER	16198-1	16198-2	16198-3	16198-4	16198-5
<b>Polychlorinated Biphenyls (680)</b>					
Monochlorobiphenyl, ug/l	0.10U	0.10U	0.10U	0.10U	0.10U
Dichlorobiphenyl, ug/l	0.10U	0.10U	0.10U	0.10U	0.10U
Trichlorobiphenyl, ug/l	0.10U	0.10U	0.10U	0.10U	0.10U
Tetrachlorobiphenyl, ug/l	0.20U	0.20U	0.20U	0.20U	0.20U
Pentachlorobiphenyl, ug/l	0.20U	0.20U	0.20U	0.20U	0.20U
Hexachlorobiphenyl, ug/l	0.20U	0.20U	0.20U	0.20U	0.20U
Heptachlorobiphenyl, ug/l	0.30U	0.30U	0.30U	0.30U	0.30U
Octachlorobiphenyl, ug/l	0.30U	0.30U	0.30U	0.30U	0.30U
Nonachlorobiphenyl, ug/l	0.50U	0.50U	0.50U	0.50U	0.50U
Decachlorobiphenyl, ug/l	0.50U	0.50U	0.50U	0.50U	0.50U
Surrogate - DCB 13C12	75 ‰	62 ‰	52 ‰	55 ‰	50 ‰
Dilution Factor	1	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	10.02.01	10.02.01	10.02.01	10.02.01	10.02.01
Batch ID	0926E	0926E	0926E	0926E	0926E

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LOG NO: S1-16198  
Received: 22 SEP 01  
Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
16198-6	TCMW-5S	09-20-01/14:45	SIL068
PARAMETER	16198-6		
Volatiles by GC/MS (8260)			
Chloromethane, ug/l	10U		
Bromomethane (Methyl bromide), ug/l	9.8U		
Vinyl chloride, ug/l	10U		
Chloroethane, ug/l	10U		
Methylene chloride (Dichloromethane), ug/l	4.7U		
Acetone, ug/l	50U		
Carbon disulfide, ug/l	5.0U		
1,1-Dichloroethene, ug/l	5.0U		
1,1-Dichloroethane, ug/l	5.0U		
Cis/Trans-1,2-Dichloroethene, ug/l	5.0U		
Chloroform, ug/l	3.1J		
1,2-Dichloroethane, ug/l	5.0U		
2-Butanone (MEK), ug/l	25U		
1,1,1-Trichloroethane, ug/l	5.0U		
Carbon tetrachloride, ug/l	5.0U		
Bromodichloromethane, ug/l	5.0U		
1,1,2,2-Tetrachloroethane, ug/l	5.0U		
1,2-Dichloropropane, ug/l	5.0U		
trans-1,3-Dichloropropene, ug/l	5.0U		
Trichloroethene, ug/l	2.7U		
Dibromochloromethane, ug/l	5.0U		
1,1,2-Trichloroethane, ug/l	5.0U		

LOG NO: S1-16198  
Received: 22 SEP 01  
Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16198-6	TCMW-5S		09-20-01/14:45	SIL068
PARAMETER		16198-6		
Benzene, ug/l		1.2U		
cis-1,3-Dichloropropene, ug/l		1.0U		
Bromoform, ug/l		5.0U		
2-Hexanone, ug/l		25U		
4-Methyl-2-pentanone (MIBK), ug/l		25U		
Tetrachloroethene, ug/l		5.0U		
Toluene, ug/l		5.0U		
Chlorobenzene, ug/l		2.9J		
Ethylbenzene, ug/l		5.0U		
Styrene, ug/l		5.0U		
Xylenes, Total, ug/l		5.0U		
Surrogate - Toluene-d8		94 ‰		
Surrogate - 4-Bromofluorobenzene		80 ‰		
Surrogate - Dibromofluoromethane		90 ‰		
Dilution Factor		1		
Analysis Date		10.02.01		
Batch ID		1B1002		
Arsenic (6010), mg/l		0.0050B		
Dilution Factor		1		
Prep Date		09.26.01		
Analysis Date		09.28.01		
Batch ID		0926H		

LOG NO: S1-16198  
Received: 22 SEP 01  
Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16198-6	TCMW-5S		09-20-01/14:45	SIL068
PARAMETER		16198-6		
Chromium (6010), mg/l	.	0.0017B		
Dilution Factor		1		
Prep Date		09.26.01		
Analysis Date		09.28.01		
Batch ID		0926H		
Copper (6010), mg/l		0.0034B		
Dilution Factor		1		
Prep Date		09.26.01		
Analysis Date		09.28.01		
Batch ID		0926H		
Iron (6010), mg/l		0.072		
Dilution Factor		1		
Prep Date		09.26.01		
Analysis Date		09.28.01		
Batch ID		0926H		
Manganese (6010), mg/l		0.097		
Dilution Factor		1		
Prep Date		09.26.01		
Analysis Date		09.28.01		
Batch ID		0926H		

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LOG NO: S1-16198

Received: 22 SEP 01

Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219

Project: Sauget Area 1 Site M/Ven#203708

Sampled By: Client

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
16198-6	TCMW-5S	09-20-01/14:45	SIL068
PARAMETER		16198-6	
Nickel (6010), mg/l	0.040U		
Dilution Factor	1		
Prep Date	09.26.01		
Analysis Date	09.28.01		
Batch ID	0926H		
Lead (6010), mg/l	0.0050U		
Dilution Factor	1		
Prep Date	09.26.01		
Analysis Date	09.28.01		
Batch ID	0926H		
Antimony (6010), mg/l	0.020U		
Dilution Factor	1		
Prep Date	09.26.01		
Analysis Date	09.28.01		
Batch ID	0926H		
Zinc (6010), mg/l	0.020U		
Dilution Factor	1		
Prep Date	09.26.01		
Analysis Date	09.28.01		
Batch ID	0926H		

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575 Maryville Center Dr.  
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Project: Sauget Area 1 Site M/Ven#203708  
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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16198-6	TCMW-5S		09-20-01/14:45	SIL068
PARAMETER	16198-6			
TCL Semivolatiles (8270)				
Phenol, ug/l			10U	
bis(2-Chloroethyl)ether, ug/l			10U	
2-Chlorophenol, ug/l			10U	
1,3-Dichlorobenzene, ug/l			10U	
1,4-Dichlorobenzene, ug/l			10U	
1,2-Dichlorobenzene, ug/l			10U	
2-Methylphenol (o-Cresol), ug/l			10U	
2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether), ug/l			10U	
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/l			10U	
N-Nitroso-di-n-propylamine, ug/l			10U	
Hexachloroethane, ug/l			1.9U	
Nitrobenzene, ug/l			3.5U	
Isophorone, ug/l			10U	
2-Nitrophenol, ug/l			10U	
bis(2-Chloroethoxy)methane, ug/l			10U	
2,4-Dichlorophenol, ug/l			10U	
1,2,4-Trichlorobenzene, ug/l			10U	
Naphthalene, ug/l			10U	
4-Chloroaniline, ug/l			20U	
Hexachlorobutadiene, ug/l			10U	
4-Chloro-3-methylphenol, ug/l			10U	

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575 Maryville Center Dr.  
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Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
16198-6	TCMW-5S	09-20-01/14:45	SIL068
PARAMETER		16198-6	
2-Methylnaphthalene, ug/l	10U		
Hexachlorocyclopentadiene, ug/l	10U		
2,4,6-Trichlorophenol, ug/l	2.1U		
2,4,5-Trichlorophenol, ug/l	10U		
2-Chloronaphthalene, ug/l	10U		
2-Nitroaniline, ug/l	50U		
Dimethylphthalate, ug/l	10U		
Acenaphthylene, ug/l	10U		
3-Nitroaniline, ug/l	50U		
Acenaphthene, ug/l	10U		
2,4-Dinitrophenol, ug/l	14U		
4-Nitrophenol, ug/l	50U		
Dibenzofuran, ug/l	10U		
2,4-Dinitrotoluene, ug/l	10U		
2,6-Dinitrotoluene, ug/l	10U		
Diethylphthalate, ug/l	10U		
4-Chlorophenylphenyl ether, ug/l	10U		
Fluorene, ug/l	1.0U		
4-Nitroaniline, ug/l	50U		
4,6-Dinitro-2-methylphenol, ug/l	13U		
N-Nitrosodiphenylamine, ug/l	5.0U		
4-Bromophenylphenyl ether, ug/l	1.0U		
Hexachlorobenzene, ug/l	10U		

LOG NO: S1-16198  
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Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16198-6	TCMW-5S		09-20-01/14:45	SIL068
PARAMETER		16198-6		
Pentachlorophenol, ug/l		5.0U		
Phenanthrene, ug/l		10U		
Anthracene, ug/l		10U		
Di-n-butylphthalate, ug/l		10U		
Fluoranthene, ug/l		10U		
Pyrene, ug/l		10U		
Butylbenzylphthalate, ug/l		10U		
3,3'-Dichlorobenzidine, ug/l		20U		
Benzo(a)anthracene, ug/l		10U		
bis(2-Ethylhexyl)phthalate, ug/l		1.8		
Chrysene, ug/l		10U		
Di-n-octylphthalate, ug/l		10U		
Benzo(b)fluoranthene, ug/l		10U		
Benzo(k)fluoranthene, ug/l		10U		
Benzo(a)pyrene, ug/l		10U		
Indeno(1,2,3-cd)pyrene, ug/l		10U		
Dibenzo(a,h)anthracene, ug/l		10U		
Benzo(g,h,i)perylene, ug/l		10U		
Carbazole, ug/l		3.4U		
Surrogate - Phenol-d5		78 %		
Surrogate - 2-Fluorophenol		85 %		
Surrogate - 2,4,6-Tribromophenol		79 %		
Surrogate - Nitrobenzene - d5		80 %		

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LOG NO: S1-16198  
Received: 22 SEP 01  
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Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
16198-6	TCMW-5S	09-20-01/14:45	SIL068
PARAMETER	16198-6		
Surrogate - 2-Fluorobiphenyl	86 %		
Surrogate - Terphenyl-d14	78 %		
Dilution Factor	1		
Prep Date	09.26.01		
Analysis Date	09.28.01		
Batch ID	0926C		
<b>Polychlorinated Biphenyls (680)</b>			
Monochlorobiphenyl, ug/l	0.10U		
Dichlorobiphenyl, ug/l	0.10U		
Trichlorobiphenyl, ug/l	0.10U		
Tetrachlorobiphenyl, ug/l	0.20U		
Pentachlorobiphenyl, ug/l	0.20U		
Hexachlorobiphenyl, ug/l	0.20U		
Heptachlorobiphenyl, ug/l	0.30U		
Octachlorobiphenyl, ug/l	0.30U		
Nonachlorobiphenyl, ug/l	0.50U		
Decachlorobiphenyl, ug/l	0.50U		
Surrogate - DCB 13C12	56 %		
Dilution Factor	1		
Prep Date	09.26.01		
Analysis Date	10.02.01		
Batch ID	0926E		

LOG NO: S1-16198

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Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
16198-7	TB	09-20-01	SIL068
PARAMETER	16198-7		
Volatiles by GC/MS (8260)			
Chloromethane, ug/l	10U		
Bromomethane (Methyl bromide), ug/l	9.8U		
Vinyl chloride, ug/l	10U		
Chloroethane, ug/l	10U		
Methylene chloride (Dichloromethane), ug/l	4.7U		
Acetone, ug/l	50U		
Carbon disulfide, ug/l	5.0U		
1,1-Dichloroethene, ug/l	5.0U		
1,1-Dichloroethane, ug/l	5.0U		
Cis/Trans-1,2-Dichloroethene, ug/l	5.0U		
Chloroform, ug/l	5.0U		
1,2-Dichloroethane, ug/l	5.0U		
2-Butanone (MEK), ug/l	25U		
1,1,1-Trichloroethane, ug/l	5.0U		
Carbon tetrachloride, ug/l	5.0U		
Bromodichloromethane, ug/l	5.0U		
1,1,2,2-Tetrachloroethane, ug/l	5.0U		
1,2-Dichloropropane, ug/l	5.0U		
trans-1,3-Dichloropropene, ug/l	5.0U		
Trichloroethene, ug/l	2.7U		
Dibromochloromethane, ug/l	5.0U		
1,1,2-Trichloroethane, ug/l	5.0U		

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LOG NO: S1-16198  
Received: 22 SEP 01  
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Solutia Inc.  
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St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219  
Project: Sauget Area 1 Site M/Ven#203708  
Sampled By: Client  
Code: 103011022

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16198-7	TB		09-20-01	SIL068
<hr/>				
PARAMETER		16198-7		
Benzene, ug/l		1.2U		
cis-1,3-Dichloropropene, ug/l		1.0U		
Bromoform, ug/l		5.0U		
2-Hexanone, ug/l		.25U		
4-Methyl-2-pentanone (MIBK), ug/l		25U		
Tetrachloroethene, ug/l		5.0U		
Toluene, ug/l		1.2J		
Chlorobenzene, ug/l		5.0U		
Ethylbenzene, ug/l		5.0U		
Styrene, ug/l		5.0U		
Xylenes, Total, ug/l		5.0U		
Surrogate - Toluene-d8		96 ‰		
Surrogate - 4-Bromofluorobenzene		80 ‰		
Surrogate - Dibromofluoromethane		86 ‰		
Dilution Factor		1		
Analysis Date		10.02.01		
Batch ID		1B1002		
<hr/>				

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LOG NO: S1-16198

Received: 22 SEP 01

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St. Louis, MO 63141

Client PO. No.: 4503273556

Contract No.: S7219

Project: Sauget Area 1 Site M/Ven#203708

Sampled By: Client

Code: 103011022

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**REPORT OF RESULTS**

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE / TIME SAMPLED	SDG#
16198-7	TB	09-20-01	SIL068

PARAMETER	16198-7
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These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIIA, IIB, and III.

U = Indicates compound was analyzed for but not detected.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.

B (Inorganic) = This flag indicates the reported value was obtained from a reading that was less than the Project Reporting Limits but greater than or equal to the Method Detection Limit (MDL).

  
Michelle Owens, Project Manager

**Final Page Of Report**



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LOG NO: S1-16125

Received: 20 SEP 01

Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Requisition: 203708

Contract No.: S7219

Project: Saugat Area 1

Sampled By: Client

Code: 103011022

Page 1

**REPORT OF RESULTS**

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16125-1	TCMW-3M		09-19-01/16:10	SIL068
16125-2	TCMW-6M		09-19-01/10:40	SIL068
16125-3	TCMW-6S		09-19-01/10:50	SIL068
16125-4	TCMW-3S		09-19-01/16:20	SIL068
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068

PARAMETER	16125-1	16125-2	16125-3	16125-4	16125-5
Volatiles by GC/MS (8260)					

Chloromethane, ug/l	10U	10U	10U	10U	10U
Bromomethane (Methyl bromide), ug/l	9.8U	9.8U	9.8U	9.8U	9.8U
Vinyl chloride, ug/l	10U	10U	10U	10U	10U
Chloroethane, ug/l	10U	10U	10U	10U	10U
Methylene chloride (Dichloromethane), ug/l	4.7U	4.7U	4.7U	4.7U	4.7U
Acetone, ug/l	50U	50U	50U	50U	50U
Carbon disulfide, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
1,1-Dichloroethene, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
1,1-Dichloroethane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
Cis/Trans-1,2-Dichloroethene, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
Chloroform, ug/l	5.0U	5.0U	5.0U	8.6	8.1
1,2-Dichloroethane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
2-Butanone (MEK), ug/l	25U	25U	25U	25U	25U
1,1,1-Trichloroethane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
Carbon tetrachloride, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
Bromodichloromethane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U



LOG NO: S1-16125

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Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Requisition: 203708

Contract No.: S7219

Project: Saugat Area 1

Sampled By: Client

Code: 103011022

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#		
16125-1	TCMW-3M		09-19-01/16:10	SIL068		
16125-2	TCMW-6M		09-19-01/10:40	SIL068		
16125-3	TCMW-6S		09-19-01/10:50	SIL068		
16125-4	TCMW-3S		09-19-01/16:20	SIL068		
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068		
PARAMETER		16125-1	16125-2	16125-3	16125-4	16125-5
1,1,2,2-Tetrachloroethane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-Dichloropropane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
trans-1,3-Dichloropropene, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Trichloroethene, ug/l	2.7U	2.7U	2.7U	2.7U	2.7U	2.7U
Dibromochloromethane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,2-Trichloroethane, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Benzene, ug/l	1.2U	1.2U	1.2U	1.2U	1.2U	1.2U
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Bromoform, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-Hexanone, ug/l	25U	25U	25U	25U	25U	25U
4-Methyl-2-pentanone (MIBK), ug/l	25U	25U	25U	25U	25U	25U
Tetrachloroethene, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Toluene, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Chlorobenzene, ug/l	1.1J	5.0U	5.0U	5.0U	5.0U	5.0U
Ethylbenzene, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Styrene, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Xylenes, Total, ug/l	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
Surrogate - Toluene-d8	96 ‰	96 ‰	96 ‰	96 ‰	96 ‰	96 ‰
Surrogate - 4-Bromofluorobenzene	80 ‰	80 ‰	80 ‰	80 ‰	78 ‰	78 ‰
Surrogate - Dibromofluoromethane	88 ‰	88 ‰	88 ‰	90 ‰	90 ‰	90 ‰
Dilution Factor	1	1	1	1	1	1
Analysis Date	10.01.01	10.01.01	10.01.01	10.01.01	10.01.01	10.01.01
Batch ID	1B1001	1B1001	1B1001	1B1001	1B1001	1B1001



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REPORT OF RESULTS

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16125-1	TCMW-3M		09-19-01/16:10	SIL068
16125-2	TCMW-6M		09-19-01/10:40	SIL068
16125-3	TCMW-6S		09-19-01/10:50	SIL068
16125-4	TCMW-3S		09-19-01/16:20	SIL068
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068
PARAMETER	16125-1	16125-2	16125-3	16125-4
Arsenic (6010), mg/l	0.0057B	0.0039B	0.0040B	0.010U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I
Chromium (6010), mg/l	0.010U	0.010U	0.0051B	0.010U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I
Copper (6010), mg/l	0.020U	0.020U	0.0043B	0.0028B
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I



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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16125-1	TCMW-3M		09-19-01/16:10	SIL068
16125-2	TCMW-6M		09-19-01/10:40	SIL068
16125-3	TCMW-6S		09-19-01/10:50	SIL068
16125-4	TCMW-3S		09-19-01/16:20	SIL068
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068
PARAMETER	16125-1	16125-2	16125-3	16125-4
Iron (6010), mg/l	19	6.4	0.20	0.67
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I
Manganese (6010), mg/l	1.1	0.75	0.13	1.4
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I
Nickel (6010), mg/l	0.040U	0.040U	0.0094B	0.0075B
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16125-1	TCMW-3M		09-19-01/16:10	SIL068
16125-2	TCMW-6M		09-19-01/10:40	SIL068
16125-3	TCMW-6S		09-19-01/10:50	SIL068
16125-4	TCMW-3S		09-19-01/16:20	SIL068
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068
PARAMETER	16125-1	16125-2	16125-3	16125-4
Lead (6010), mg/l	0.0050U	0.0050U	0.0050U	0.0050U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I
Antimony (6010), mg/l	0.020U	0.020U	0.020U	0.020U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I
Zinc (6010), mg/l	0.020U	0.020U	0.020U	0.020U
Dilution Factor	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	09.28.01	09.28.01	09.28.01	09.28.01
Batch ID	0926I	0926I	0926I	0926I

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REPORT OF RESULTS

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16125-1	TCMW-3M		09-19-01/16:10	SIL068		
16125-2	TCMW-6M		09-19-01/10:40	SIL068		
16125-3	TCMW-6S		09-19-01/10:50	SIL068		
16125-4	TCMW-3S		09-19-01/16:20	SIL068		
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068		
PARAMETER		16125-1	16125-2	16125-3	16125-4	16125-5
<b>TCL Semivolatiles (8270)</b>						
Phenol, ug/l		10U	10U	10U	10U	10U
bis(2-Chloroethyl)ether, ug/l		10U	10U	10U	10U	10U
2-Chlorophenol, ug/l		10U	10U	10U	10U	10U
1,3-Dichlorobenzene, ug/l		10U	10U	10U	10U	10U
1,4-Dichlorobenzene, ug/l		10U	10U	10U	10U	10U
1,2-Dichlorobenzene, ug/l		10U	10U	10U	10U	10U
2-Methylphenol (o-Cresol), ug/l		10U	10U	10U	10U	10U
2,2'-Oxybis(1-Chloropropane ) (bis-2-chloroisopropyl ether), ug/l		10U	10U	10U	10U	10U
3-Methylphenol/4-Methylphen ol (m&p-Cresol), ug/l		10U	10U	10U	10U	10U
N-Nitroso-di-n-propylamine, ug/l		10U	10U	10U	10U	10U
Hexachloroethane, ug/l		1.9U	1.9U	1.9U	1.9U	1.9U
Nitrobenzene, ug/l		3.5U	3.5U	3.5U	3.5U	3.5U
Isophorone, ug/l		10U	10U	10U	10U	10U
2-Nitrophenol, ug/l		10U	10U	10U	10U	10U
bis(2-Chloroethoxy)methane, ug/l		10U	10U	10U	10U	10U



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## REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16125-1	TCMW-3M		09-19-01/16:10	SIL068
16125-2	TCMW-6M		09-19-01/10:40	SIL068
16125-3	TCMW-6S		09-19-01/10:50	SIL068
16125-4	TCMW-3S		09-19-01/16:20	SIL068
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068
PARAMETER	16125-1	16125-2	16125-3	16125-4
2,4-Dichlorophenol, ug/l	10U	10U	10U	10U
1,2,4-Trichlorobenzene, ug/l	10U	10U	10U	10U
Naphthalene, ug/l	10U	10U	10U	10U
4-Chloroaniline, ug/l	20U	20U	20U	20U
Hexachlorobutadiene, ug/l	10U	10U	10U	10U
4-Chloro-3-methylphenol, ug/l	10U	10U	10U	10U
2-Methylnaphthalene, ug/l	10U	10U	10U	10U
Hexachlorocyclopentadiene, ug/l	10U	10U	10U	10U
2,4,6-Trichlorophenol, ug/l	2.1U	2.1U	2.1U	2.1U
2,4,5-Trichlorophenol, ug/l	10U	10U	10U	10U
2-Chloronaphthalene, ug/l	10U	10U	10U	10U
2-Nitroaniline, ug/l	50U	50U	50U	50U
Dimethylphthalate, ug/l	10U	10U	10U	10U
Acenaphthylene, ug/l	10U	10U	10U	10U
3-Nitroaniline, ug/l	50U	50U	50U	50U
Acenaphthene, ug/l	10U	10U	10U	10U
2,4-Dinitrophenol, ug/l	14U	14U	14U	14U
4-Nitrophenol, ug/l	50U	50U	50U	50U
Dibenzofuran, ug/l	10U	10U	10U	10U



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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES			DATE/		
PARAMETER		16125-1	16125-2	16125-3	TIME SAMPLED	SDG#
16125-1	TCMW-3M				09-19-01/16:10	SIL068
16125-2	TCMW-6M				09-19-01/10:40	SIL068
16125-3	TCMW-6S				09-19-01/10:50	SIL068
16125-4	TCMW-3S				09-19-01/16:20	SIL068
16125-5	TCMW-3S-DUP				09-19-01/16:20	SIL068
2,4-Dinitrotoluene, ug/l		10U	10U	10U	10U	10U
2,6-Dinitrotoluene, ug/l		10U	10U	10U	10U	10U
Diethylphthalate, ug/l		10U	10U	10U	10U	10U
4-Chlorophenylphenyl ether, ug/l		10U	10U	10U	10U	10U
Fluorene, ug/l		1.0U	1.0U	1.0U	1.0U	1.0U
4-Nitroaniline, ug/l		50U	50U	50U	50U	50U
4,6-Dinitro-2-methylphenol, ug/l		13U	13U	13U	13U	13U
N-Nitrosodiphenylamine, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
4-Bromophenylphenyl ether, ug/l		1.0U	1.0U	1.0U	1.0U	1.0U
Hexachlorobenzene, ug/l		10U	10U	10U	10U	10U
Pentachlorophenol, ug/l		5.0U	5.0U	5.0U	5.0U	5.0U
Phenanthrene, ug/l		10U	10U	10U	10U	10U
Anthracene, ug/l		10U	10U	10U	10U	10U
Di-n-butylphthalate, ug/l		10U	10U	10U	0.47J	0.48J
Fluoranthene, ug/l		10U	10U	10U	10U	10U
Pyrene, ug/l		10U	10U	10U	10U	10U
Butylbenzylphthalate, ug/l		10U	10U	10U	10U	10U
3,3'-Dichlorobenzidine, ug/l		20U	20U	20U	20U	20U
Benzo(a)anthracene, ug/l		10U	10U	10U	10U	10U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#		
16125-1	TCMW-3M		09-19-01/16:10	SIL068		
16125-2	TCMW-6M		09-19-01/10:40	SIL068		
16125-3	TCMW-6S		09-19-01/10:50	SIL068		
16125-4	TCMW-3S		09-19-01/16:20	SIL068		
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068		
PARAMETER		16125-1	16125-2	16125-3	16125-4	16125-5
bis(2-Ethylhexyl)phthalate, ug/l	2.3	2.1	1.1J	2.7	2.9	
Chrysene, ug/l	10U	10U	10U	10U	10U	
Di-n-octylphthalate, ug/l	10U	10U	10U	10U	10U	
Benzo(b)fluoranthene, ug/l	10U	10U	10U	10U	10U	
Benzo(k)fluoranthene, ug/l	10U	10U	10U	10U	10U	
Benzo(a)pyrene, ug/l	10U	10U	10U	10U	10U	
Indeno(1,2,3-cd)pyrene, ug/l	10U	10U	1.3J	10U	10U	
Dibenzo(a,h)anthracene, ug/l	10U	10U	1.3J	10U	10U	
Benzo(g,h,i)perylene, ug/l	10U	10U	1.9J	10U	10U	
Carbazole, ug/l	3.4U	3.4U	3.4U	3.4U	3.4U	
Surrogate - Phenol-d5	80 %	67 %	70 %	68 %	67 %	
Surrogate - 2-Fluorophenol	85 %	72 %	76 %	74 %	75 %	
Surrogate - 2,4,6-Tribromophenol	81 %	73 %	76 %	69 %	71 %	
Surrogate - Nitrobenzene - d5	78 %	66 %	74 %	68 %	70 %	
Surrogate - 2-Fluorobiphenyl	78 %	70 %	76 %	72 %	72 %	
Surrogate - Terphenyl-d14	48 %	62 %	56 %	42 %	46 %	
Dilution Factor	1	1	1	1	1	
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01	09.26.01	
Analysis Date	09.27.01	09.27.01	09.27.01	09.27.01	09.27.01	
Batch ID	0926C	0926C	0926C	0926C	0926C	



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Contract No.: S7219  
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16125-1	TCMW-3M		09-19-01/16:10	SIL068	
16125-2	TCMW-6M		09-19-01/10:40	SIL068	
16125-3	TCMW-6S		09-19-01/10:50	SIL068	
16125-4	TCMW-3S		09-19-01/16:20	SIL068	
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068	
PARAMETER	16125-1	16125-2	16125-3	16125-4	16125-5
Polychlorinated Biphenyls (680)					
Monochlorobiphenyl, ug/l	0.10U	0.10U	0.10U	0.10U	0.10U
Dichlorobiphenyl, ug/l	0.10U	0.10U	0.10U	0.10U	0.10U
Trichlorobiphenyl, ug/l	0.10U	0.10U	0.10U	0.10U	0.10U
Tetrachlorobiphenyl, ug/l	0.20U	0.20U	0.20U	0.20U	0.20U
Pentachlorobiphenyl, ug/l	0.20U	0.20U	0.20U	0.20U	0.20U
Hexachlorobiphenyl, ug/l	0.20U	0.20U	0.20U	0.20U	0.20U
Heptachlorobiphenyl, ug/l	0.30U	0.30U	0.30U	0.30U	0.30U
Octachlorobiphenyl, ug/l	0.30U	0.30U	0.30U	0.30U	0.30U
Nonachlorobiphenyl, ug/l	0.50U	0.50U	0.50U	0.50U	0.50U
Decachlorobiphenyl, ug/l	0.50U	0.50U	0.50U	0.50U	0.50U
Surrogate - DCB 13C12	66 %	64 %	70 %	59 %	62 %
Dilution Factor	1	1	1	1	1
Prep Date	09.26.01	09.26.01	09.26.01	09.26.01	09.26.01
Analysis Date	10.02.01	10.02.01	10.02.01	10.02.01	10.02.01
Batch ID	0926E	0926E	0926E	0926E	0926E



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STL Savannah

LOG NO: S1-16125

Received: 20 SEP 01

Reported: 12 OCT 01

Ms. Kimberly Perry  
Solutia Inc.  
575 Maryville Center Dr.  
St. Louis, MO 63141

Client PO. No.: 4503273556

Requisition: 203708

Contract No.: S7219

Project: Saugat Area 1

Sampled By: Client

Code: 103011022

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/	TIME SAMPLED	SDG#
16125-1	TCMW-3M		09-19-01/16:10	SIL068
16125-2	TCMW-6M		09-19-01/10:40	SIL068
16125-3	TCMW-6S		09-19-01/10:50	SIL068
16125-4	TCMW-3S		09-19-01/16:20	SIL068
16125-5	TCMW-3S-DUP		09-19-01/16:20	SIL068
PARAMETER	16125-1      16125-2      16125-3      16125-4      16125-5			

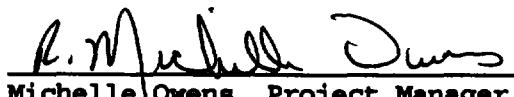
These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III.

U = Indicates compound was analyzed for but not detected.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.

B (Inorganic) = This flag indicates the reported value was obtained from a reading that was less than the Project Reporting Limits but greater than or equal to the Method Detection Limit (MDL).

  
Michelle Owens, Project Manager

Final Page Of Report